

What is claimed is:

Sub A1
1. An article of manufacture for the prevention of the increase of temperature in heat sensitive devices through the absorption of heat during heat generating conditions comprising

5 bicarbonate salt in an amount sufficient to effect the required heat absorption; and

means for supporting said bicarbonate salt, the physical characteristics of said means for supporting said sodium bicarbonate being defined by the heat absorbing application.

10 2. The article of manufacture according to Claim 1, wherein the bicarbonate salt is selected from the group consisting of Lithium Bicarbonate, Sodium Bicarbonate, Potassium Bicarbonate, Magnesium Bicarbonate, Calcium Bicarbonate, Beryllium Bicarbonate, Aluminum Bicarbonate, Ammonium
15 Bicarbonate and the mixtures thereof.

3. The article of manufacture according to Claim 1, wherein the means for supporting said bicarbonate salt further comprises a retaining matrix, packaging, encapsulation, microencapsulation, enclosure or structure to form a
20 heat absorbing surface, device or structure.

4. The article of manufacture according to Claim 1, wherein the heat sensitive device is embedded within the bicarbonate salt.

25 5. The article of manufacture according to Claim 1, wherein the heat sensitive device is surrounded by the bicarbonate salt.

6. The article of manufacture according to Claim 1, wherein the means for supporting said bicarbonate salt is a closed container, within which said
30 bicarbonate salt is located.

7. The article of manufacture according to Claim 6, wherein said bicarbonate salt lines the inner wall of the closed container.

8. The article of manufacture according to Claim 7, wherein said heat sensitive device is located within and spaced from said bicarbonate salt.

5 9. The article of manufacture according to Claim 1, wherein said bicarbonate salt is adhered to a flexible substrate, said substrate being adaptable to the size and shape of said heat sensitive device.

10 10. The article of manufacture according to Claim 1, wherein the means for supporting said bicarbonate salt is the bicarbonate salt itself.

15

20

\C&LDOC:.StmLib1:1009015.1 04/10/03

Add A7 (abstract)